
North America's Leader in Hazardous Material Information Management
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Phone (800) 451-8346 Fax (760) 602-8888

MSDS PRODUCT INFORMATION

Date: 10/07/2005
To: MSDS Requester
From: 3E Company
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☐ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☒ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: American Cyanamid Company
Product Name: Cygon 2-E Systemic Insecticide

AMERICAN CYANAMID CO.
PARSIPPANY, NJ 07054

MATERIAL SAFETY DATA SHEET

MSDS NO. AG09060-6
CAS NO. 000060-51-5

DATE: JUN 02, 1997

EMERGENCY TELEPHONE: (973)-683-3100 (U.S.A.)
(800)-424-9300 (CHEMTREC)

PRODUCT IDENTIFICATION	TRADE NAME: CYGON® 25 Systemic Insecticide
	SYNONYMS: 0,0-dimethyl S-(N-methylcarbamoylmethyl) phosphorodithioate; Dimethoate.
	CHEMICAL FAMILY: Organophosphate
	MOLECULAR FORMULA: C ₅ H ₁₁ NO ₃ PS ₂
	MOLECULAR WEIGHT: 229.300
	USAGE: Insecticide

WARNING STATEMENTS	CAUTION! KEEP OUT OF REACH OF CHILDREN. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN. AVOID BREATHING DUST OR SPRAY MIST. AVOID CONTACT WITH THE SKIN.
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INGREDIENTS	COMPONENT	CAS. NO.	%	PEL/TLV
	Dimethoate	000060-51-5	25.00	0.7 mg/m ³
	Inerts		75.00	
	REFERENCE: Dimethoate		American Cyanamid - 1984	
	Inerts			

PHYSICAL PROPERTIES	APPEARANCE AND ODOR:	Off-white powder
	BOILING POINT:	Not Applicable
	MELTING POINT:	Not Applicable
	VAPOR PRESSURE:	Not Applicable
	BULK DENSITY:	23-24 lb. per cubic foot
	VAPOR DENSITY:	Not Applicable
	% VOLATILITY (BY VOL.):	Negligible
	OCTANOL / H ₂ O	Not Applicable
	PARTITION COEF.:	
	PH:	Not Applicable
	SATURATION IN AIR (BY VOL.):	Not Applicable
	EVAPORATION RATE:	Not Applicable
	SOLUBILITY IN WATER:	Disperses

**FIRE AND
EXPLOSION
HAZARD
INFORMATION**

FLASH POINT: Not Applicable
FLAMMABLE LIMITS Not Available
 (% BY VOL.):
AUTOIGNITION TEMP: Not Available
DECOMPOSITION TEMP: Not Available

FIRE EXTINGUISHING MEDIA:

Use water, foam, dry chemical, or carbon dioxide to extinguish fires.

FIRE CONTROL TACTICS:

Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog - solid stream may cause spreading.

Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - if water enters a drainage system, advise the authorities downstream.

**NFPA HAZARD
RATING**

0 Least
 1 Slight
 2 Moderate
 3 High
 4 Severe

0
 2 0
 \ /

Flammability
 Health \ Reactivity
 /
 Special

REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: pH>7 or pH<4; storage above 120°F (48°C)
POLYMERIZATION: Will not occur
INCOMPATIBLE MATERIALS: CYGON is unstable in alkaline media, in strong acids, and in protic solvents such as alcohols.
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce oxides of carbon, nitrogen, phosphorus, and sulfur.

**HEALTH HAZARD
INFORMATION****TOXICITY DATA AND
EFFECTS OF OVEREXPOSURE:**ACUTE TOXICITY DATA:

The oral LD₅₀ for the male albino rat is 1.42 g/kg. The dermal LD₅₀ for the male albino rabbit is 2.68 g/kg. This product is considered to be slightly toxic both by ingestion in single doses and single skin applications. Although this product produces

some irritation to both the eye and skin of the rabbit, it is not sufficient to present any significant hazard to health under conditions of ordinary industrial handling.

CHRONIC TOXICITY DATA:

Mutagenicity: No mutagenic activity was observed in CYGON Technical (Dimethoate) by all test methods used. These included in vivo Bone Marrow Cytogenetics Rat Metaphase Analysis, Micronucleus Test, in vitro Chinese Hamster Ovary (CHO)/Hypoxanthine Guanine Phosphoribosyl Transferase (HGPRT) Mutation Assay, and Bacterial/Microsome Reverse Mutation (Ames) Test.

Teratogenicity: No teratogenic or fetotoxic effects were found at all dose levels tested in both rats and rabbits. In a similar study with cats there was an increase in the occurrences of polydactyl at 12 mg/kg/day. The no observable effect limit established by this study is 6mg/kg/day.

Carcinogenicity: No oncogenic effects were observed at all dose levels tested in both mice and rats. A one generation reproductive study with the Bobwhite Quail showed no carcinogenic lesions but did show the following effects from dimethoate: Decrease in the survival rate in the first fourteen days; reduction of food intake from test group; reduction in the egg shell thickness; and a reduction in the body weight of the test animals. These reactions only occurred in the high dose group which was 30 mg/kg/day.

Dimethoate is not listed as a human carcinogen by the IARC, OSHA or NTP.

Note: All chronic toxicity testing is done on the technical material only. There is no information available on the toxicity of the formulations relative to that of the technical material.

EMERGENCY AND FIRST AID PROCEDURES:

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician or poison control center.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Get

medical attention.

NOTES TO PHYSICIAN:

Dimethoate inhibits acetylcholinesterase activity. Warning symptoms include weakness, headache, tightness of chest, blurred vision, nonreactive pinpoint pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps. Give atropine intramuscularly or intravenously, depending on severity of poisoning, 2 to 4 mg. every 10 minutes until fully atropinized as shown by dilated pupils, dry flushed skin and tachycardia. Twenty to 30 mg., or more may be required during the first 24 hours. Never give opiates or phenothiazine tranquilizers. Clear chest by postural drainage. Artificial respiration or administration of oxygen may be necessary. Observe patient continuously for at least 48 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by a blood test. Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

**EXPOSURE
CONTROL METHODS**

During formulation of this product, please use the following recommended industrial hygiene practices:

Handle this material in a well ventilated area.

Wear rubber gloves, boots, protective coverall clothing and chemical splash goggles to prevent exposure to skin and eyes.

Wear a NIOSH approved pesticide respirator when exposure to dust could occur.

Wash thoroughly with soap and water before eating and smoking.

Shower at the end of each working day and change outer clothing.

Launder clothing before reuse.

Establish a whole blood cholinesterase monitoring program at work places.

For end-users, please refer to the product label for personal protection clothing/equipment.

**SPILL OR LEAK
PROCEDURES**

Wearing appropriate protective clothing and equipment (See "Exposure Control" section), shovel/sweep spilled material into covered containers for proper disposal (See "Waste Disposal" section), or reuse if possible. Rinse spill area and tools several times with soapy water, contain and absorb rinsate with inert absorbents (e.g. granular clay or sawdust), and place into the same disposal container as spilled material.

Depending on the quantity released to the environment, notifications to regulatory authorities may be required. If spill is to a water body, immediately notify applicable authorities downstream, so that contingencies can be taken, if necessary.

WASTE DISPOSAL: To avoid disposal, all attempts should be made to utilize the product completely, in accordance with its intended and/or registered use. If this is not possible, handle with care and dispose in a safe manner.

Empty containers may retain some product residues. DO NOT REUSE. Triple rinse, render container unusable by crushing and/or puncturing, and dispose in a safe manner.

This product contains Dimethoate, and is therefore regulated as a hazardous waste in the U.S. It is the ultimate responsibility of the waste generator to determine at the time of disposal whether the product (and/or "empty" container residue) meets any other hazardous waste criteria. Follow all applicable Federal, State, Provincial, and Local regulations regarding waste management methods.

Cyanamid's recommended disposal method for this product is: Incineration.

**SPECIAL
PRECAUTIONS**

HANDLING AND STORAGE:

Do not contaminate water, food, or feed by storage or disposal. Store in a secure, dry, well-ventilated separate room, building or covered area.

Keep away from sources of ignition and protect from exposure to fire and heat.

Segregate from oxidizers and incompatible materials listed in the Reactivity Data Section.

ADDITIONAL REGULATORY INFORMATIONSARA Title III DataSection 311 and 312 Hazard Categories

Immediate Health Hazard - <u>Y</u>	Reactive Hazard - <u>N</u>
Delayed Health Hazard - <u>N</u>	Sudden Pressure - <u>N</u>
Fire Hazard - <u>N</u>	Release Hazard

Section 302 Extremely Hazardous Substances - DimethoateSection 313 Toxic Chemicals - NoneCERCLA Reportable Quantity

Dimethoate - 10 lbs.
CYGON® 25 Systemic Insecticide - 40 lbs.

RCRA Hazardous Waste Code(s) And Statement(s)

CYGON® 25 Systemic Insecticide - P044
It is the responsibility of the waste generator to determine if any other hazardous waste code(s) apply, prior to disposal.

APPENDIX

CYGON® Systemic Insecticide is a trademark of the American Cyanamid Company

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Last Revision Data: 4/25/90

SOURCE AND	<u>SHEET NO.: AG09060-6</u>
DATE INFORMATION	DATE: JUN 02, 1997